Introduction to Automotive Service and Repair ITAG Endorsement Survey

1. Respondent Information

April 26, 2022

Please complete the survey online by **Tuesday, May 10, 2022**.

The purpose of this survey is to collect responses from Ohio public institutions of higher education regarding a proposed alignment and awarding of credit hours for the Industry Recognized Credential Transfer Assurance Guide (ITAG) for Introduction to Automotive Service and Repair. We are asking respondents to read the proposed ITAG template. The template lists in the left-hand column the learning outcomes from the Career-Technical Assurance Number (CTAN) for Introduction to Automobile Service and Repair. In the center and right-hand columns are, respectively, the competencies required to acquire the Automobile Service Excellence (ASE) Master Automobile Technician certificate (2 years experience and passing the ASE A1 through A8 exams) and ASE Automotive Maintenance and Light Repair certificate (1 year experience and passing the ASE G1 exam).

If approved, the proposed ITAG would allow a student who becomes ASE Master Automobile Technician certified or ASE Automotive Maintenance and Light Repair certified to transfer 2 credit hours to an Ohio public institution of higher learning towards a course covering the content of Introduction to Automobile Service and Repair, regardless of where and how the student obtained the education to obtain the certification.

We ask that **one representative** complete this survey on behalf of your institution as soon as possible, but **no later than Tuesday, May 10, 2022**. Please share this survey with the person most familiar with the content and subject matter. Following statewide endorsement, a formal announcement will be sent out.

Steve Levin, Columbus State Community College, is the lead faculty expert on the ITAG panel. Specific questions relevant to the content components of the alignment can be addressed to slevin@cscc.edu with a carbon copy to Nikki Wearly (nwearly@highered.ohio.gov).

Survey responses left in the form of comments will also be reviewed by the members of the ITAG panel.

We thank you in advance for your valuable input.

* 1. Demographic Information about the person completing this survey

Name	
Institution	
Department	
Title	
E-mail	
Phone	

* 2. Please indicate the type of institution that you represent

- [ ] University
- [ ] Regional Campus
- [ ] Community College

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2. Automobile Technology/Ground Transportation

* 3. Does your institution offer one or more courses in Automobile Technology/Ground Transportation?

- ◯ Yes
- ◯ No

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3. Alignment

Please read through the template below.

Automotive Service and Repair ITAG: Documentation of Credential and Alignment

Credential Name:	Introduction to Automotive Service and Repair
Credential Type:	X Certification ☐ License
Issuer of Credential:	ASE (Automotive Service Excellence)
Frequency of Updates:	Every 5 years
Exam(s) Required:	Yes
Additional Requirements:	Must be current ASE Certified Master Automobile Technician (2 years verified work experience and pass ASE A-1 through A-8 exams) or ASE Automotive Maintenance and Light Repair Certified (1 year verified work experience and pass ASE G-1 exam) https://www.ase.com/test-series
Current CTAG/TAG: (if applicable)	CTAUT005 Introduction to Automotive Service and Repair
Description of content to be evaluated and aligned:	
https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/transfer/CT2/Auto_SCTAI_Align_2015.pdf	
How long after attainment can credit be awarded?	5 years
How can receiving institutions verify credential attainment?	1) provide copy of certification 2) send status letter email from MyASE

Course Name: Introduction to Automotive Service and Repair
Credit Hours: 2
Course Description: This course introduces students to the automotive service and repair industry. It also includes basic tool usage and shop safety information. The students will learn to effectively perform basic automotive preventive maintenance as well.

Postsecondary Learning Outcomes	Content from ASE A1 through A8 Tests	Content from ASE G1 Test
1. Demonstrate the ability to work safely in the automotive shop environment.	Since it is required to have 2 years verified work experience to be an ASE Master Automobile Technician, it is implied that this work experience could count as the equivalence to this outcome.	Since it is required to have 1 year verified work experience to be ASE Automotive Maintenance and Light Repair Certified, it is implied that this work experience could count as the equivalence to this outcome.
2. Identify and demonstrate proper use of hand tools and equipment commonly used in the automotive service and repair industry.	Since it is required to have 2 years verified work experience to be an ASE Master Automobile Technician, it is implied that this work experience could count as the equivalence to this outcome.	Since it is required to have 1 year verified work experience to be ASE Automotive Maintenance and Light Repair Certified, it is implied that this work experience could count as the equivalence to this outcome.
3. Students will be able to list common careers in the automotive service and repair industry.	Since it is required to have 2 years verified work experience to be an ASE Master Automobile Technician, it is implied that this work experience could count as the equivalence to this outcome.	Since it is required to have 1 year verified work experience to be ASE Automotive Maintenance and Light Repair Certified, it is implied that this work experience could count as the equivalence to this outcome.
4. Identify the skills necessary to work in the automotive industry.	Since it is required to have 2 years verified work experience to be an ASE Master Automobile Technician, it is implied that this work experience could count as the equivalence to this outcome.	Since it is required to have 1 year verified work experience to be ASE Automotive Maintenance and Light Repair Certified, it is implied that this work experience could count as the equivalence to this outcome.
5. Perform an oil change on a vehicle.	Test A1 – D. Perform Lubrication and Cooling Systems Diagnosis and Repair	A. 5. Change engine oil and filter; reset oil life monitor.
6. Perform a cooling system basic inspection, flush and fill on a vehicle.	Test A1 – D. Perform Lubrication and Cooling Systems Diagnosis and Repair	A. 6. Inspect and test radiator, heater core, pressure cap, and coolant recovery system; determine needed repairs; perform cooling system pressure and dye tests. A. 10. Inspect and test coolant; drain, flush, and refill cooling system with recommended coolant; bleed air as required.
7. Perform transmission and transaxle maintenance.	Test A2 – B. In-Vehicle Transmission/Transaxle Maintenance and Repair Test A3 - B. Transmission Diagnosis and Repair, C. Transaxle Diagnosis and Repair	Content Area B. Automatic Transmission/Transaxle B. 2. Determine fluid type, level, and condition. B. 7. Replace fluid and filter(s). Content Area C. Manual Drive Train and Axles C. 5. Check fluid level; refill with fluid.
8. Demonstrate basic usage of a service manual and/or service information system.	Test A1, A-10. Research system operation using technical information to determine service procedures and specifications	A. 1. Verify driver's concern and/or road test vehicle; determine necessary action. Utilize service manuals, technical service bulletins (TSBs), and product information.
9. Perform tire and wheel service.	Test A3 – D. Drive Shaft/Half-Shaft and Universal Joint/Constant Velocity (CV) Joint Diagnosis (Front and Rear Wheel Drive); E. Drive Axle Diagnosis and Repair; and F. Four-Wheel Drive/All-Wheel Drive Component Diagnosis and Repair	D. 52. Inspect tire condition, tread depth, size, and application (load and speed ratings). D. 53. Check and adjust tire air pressure. Utilize vehicle tire placard and information. D. 55. Rotate tires/wheels and torque fasteners/wheel locks. D. 56. Dismount and mount tire on wheel. D. 57. Balance wheel and tire assembly. D. 58. Identify and test tire pressure monitoring systems (TPMS) (indirect and direct) for operation. Verify instrument panel lamps operation; conduct relearn procedure.

10. Perform brake system inspection.	Test A4 – D. Wheel and Tire Diagnosis and Service	E. 2. Check the master cylinder fluid level and condition; inspect for external fluid leakage. E. 8. Remove, clean, inspect, and measure brake drums; follow manufacturers' recommendations in determining need to machine or replace. E. 10. Using proper safety procedures, remove, clean, and inspect brake shoes/linings, springs, pins, self-adjusters, levers, clips, brake backing (support) plates, and other related brake hardware; determine needed repairs. E. 20. Remove, clean, and inspect pads and retaining hardware; determine needed repairs, adjustments, and replacements. E. 22. Clean, inspect, and measure rotors with a dial indicator and a micrometer; determine the need to index, machine, or replace the rotor.

11. Perform starting and charging system inspection and test.	Test A6 – A. General Electrical/Electronic System Diagnosis; B. Battery and Starting System Diagnosis and Repair; C. Charging System Diagnosis and Repair	F. 2. Check voltages, grounds, and voltage drops in electrical circuits; interpret readings. F. 3. Check current flow in electrical circuits and components; interpret readings. F. 4. Check continuity and resistances in electrical circuits and components; interpret readings. F. 5. Perform battery tests (load and capacitance); determine needed service. F. 6. Maintain or restore electronic memory functions. F. 7. Inspect, clean, fill, or replace battery. F. 10. Jump-start a vehicle with a booster battery or auxiliary power supply F. 11. Perform starter current draw test; interpret readings. F. 14. Perform charging system output test and identify undercharge, no-charge, or overcharge condition.
12. Access onboard diagnostic system codes.	Test A8 – E. Computerized Engine Controls Diagnosis and Repair	A. 18. Retrieve and record diagnostic trouble codes (DTCs).

* 4. Do you agree that the content of the ASE Master Automotive Technician Certificate listed in the center column in the template aligns with the learning outcomes listed in the left-hand column that were taken from the CTAG course, Introduction to Automotive Service and Repair?

- ◯ Yes
- ◯ No

If you feel there was a major omission in the content to support a learning outcome, please indicate.

* 5. Do you agree that the content of the ASE Automotive Service and Light Repair Certificate listed in the right-hand column in the template aligns with the learning outcomes listed in the left-hand column that were taken from the CTAG course, Introduction to Automotive Service and Repair?

- ◯ Yes
- ◯ No

If you feel there was a major omission in the content to support a learning outcome, please indicate.

* 6. Do you support the awarding of 2 semester credit hours toward the Introduction to Automobile Service and Repair course for students who provide proof of being ASE Master Automobile Technician certified or ASE Automobile Service and Light Repair certified, regardless of where the student learned the content to pass the required exams for the certificate?

- ◯ Yes
- ◯ No

If no, please explain.

* 7. Do you support the creation of an ITAG for Introduction to Automobile Service and Repair based upon the ASE certificates listed in the alignment template?

- ◯ Yes
- ◯ No

If no, please explain.

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4. Introduction to Automobile Service and Repair Course

* 8. Does your institution offer a course that aligns to the approved learning outcomes for the Introduction to Automobile Service and Repair CTAG course, as listed in the left column of the alignment template?

- ◯ Yes
- ◯ No

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5. Introduction to Automobile Service and Repair Course

* 9. What is the course name and number of your course?

* 10. How many credit hours are awarded for this course?

* 11. Do you currently award credit for this course to students who hold the ASE Master Automobile Technician Certification?

- ◯ Yes
- ◯ No

If yes, please describe the Prior Learning Assessment (PLA) process at your school for applying the ASE Master Automobile Technician Certification to meet the credit hours for your Intoduction to Automotive Service and Repair course.

* 12. Do you currently award credit for this course to students who hold the ASE Automobile Service and Light Repair Certification?

- ◯ Yes
- ◯ No

If yes, please describe the Prior Learning Assessment (PLA) process at your school for applying the ASE Automobile Service and Light Repair Certification to meet the credit hours for your Introduction to Automotive Service and Repair course.

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6. Additional Comments

13. Are there additional comments that you would like to make about the proposed ITAG for Introduction to Automobile Service and Repair?

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7. Thank You!

Thank you for completing this survey.

If you have any questions regarding this survey, please contact Nikki Wearly at nwearly@highered.ohio.gov.